



Express Mail Label #: EL326923155US
Date of Deposit: November 9, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Cartens, Carsten-Peter

Serial No.: 09/492,590

Filed: January 27, 2000

Entitled: METHODS AND COMPOSITIONS FOR
HIGH LEVEL EXPRESSION OF A
HETEROLOGOUS PROTEIN WITH POOR
CODON USAGE

Attorney Docket No.: 25436/1340 (Formerly 4114/85530)

Commissioner for Patents
Washington, D.C. 20231

Examiner: G. Leffers Jr.

Group: 1636

#178
Beta

1-16-00

TECH CENTER 1600/2900

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Sir:

This is filed in response to the Office Action mailed May 9, 2001, in the above-identified application.

Kindly enter the following amendments and remarks.

In the Specification

Please amend the specification as follows.

- Replace the paragraph at page 2, lines 7-13 with the following:

(B) --Expression of heterologous proteins in bacteria such as *E. coli* has become a standard procedure in most molecular biology laboratories and a cornerstone of production in the biotechnology industry. The most frequent problems encountered in bacterial expression systems are the insolubility of the induced protein and the poor efficiency of expression. Expression of heterologous proteins in bacteria can be seriously compromised due to the different codon preference displayed in other organisms.--